MATERIAL FOR INFORMATION DISCLOSURE STATEMENT

List of Prior Art References

 Japanese Patent Application Laid-Open No. S58-136142, laid-open on August 13, 1983

Comments

Reference 1

This reference discloses a technique for obtaining satisfactory phase noise characteristics. According to this reference, a plurality of voltage-controlled oscillation circuits are connected in parallel with one another, and their respective oscillation frequency ranges are made narrower for the purpose of minimizing lowering of the Q values of resonance circuits. By contrast, according to the present invention, the output of a voltage-controlled oscillation circuit is fed to a limiter circuit, and the output of the limiter circuit is used as the output of the voltage-controlled oscillation circuit. This helps maintain a constant output level. Moreover, the oscillation frequency range of each voltage-controlled oscillation circuit is uniquely decided with sufficient consideration given to variations in the supply voltage and in the operating temperature and fabrication variations. This makes it possible to uniquely decide which voltage-controlled oscillation circuit to select for oscillation at a given frequency.

PATENT ABSTRACTS OF JAPAN

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(71)Applicant: NEC CORP

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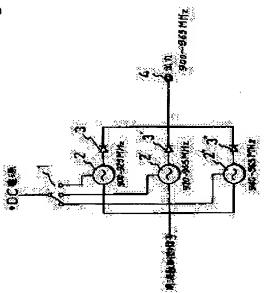
(72)Inventor: SATO MASUJIRO

(54) VOLTAGE CONTROLLED OSCILLATOR

(57)Abstract:

PURPOSE: To improve the signal-noise ratio and to form easily an oscillator of broad band, by arranging a plurality of voltage-controlled oscillation circuits having overlapped oscillation frequency zones and switching them.

CONSTITUTION: The output of voltage-controlled oscillation circuits 2, 2', 2" is given to an output terminal 4 via a diodes 3, 3', 3", respectively and frequency control terminals are used in common. The circuit 2 oscillates signals in the range of 900□925MHz, the circuit 2' oscillates signals in 920□945MHz, and the circuit "2 oscillates signals in 940□965MHz, respectively. For example, in outputting the signal in 930MHz, the switch 1 gives a power supply to the circuit 2', the diode 3' is set on with an internal circuit of the circuit 2' and the signal in frequency 930MHz is outputted.



LEGAL STATUS

[Date of request for examination]

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(全 2 頁)

匈電圧制御発振器

20特

願 昭57-18012

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⑫発 明 者 佐藤益次郎

東京都港区芝五丁目33番1号日 本電気株式会社内

切出 願 人 日本電気株式会社

東京都港区芝5丁目33番1号

個代 理 人 弁理士 熊谷雄太郎

明 細 書

/ 基礎の名類

電圧制 製発振器

2 特許請求の範囲

3 発明の詳細な説明

本発明は、広帯域で、C/M(信号対雑音比)の 食い電圧制御発銀器に関するものである。 発振器においては、発振周波数を決定する共振器の特性により、広帯域にすれば共振器のQが低下してC/Vが悪化し、C/Vを良くしたい時には共振器のQを上げなければならないために、広帯域にすることが困難であつた。

本発明は従来の上記欠点を解消する為になされたものであり、従つて本発明の目的は、発掘する 関波数帯が互い重なる範囲を持つ数個の電圧制御 発掘回路を並べて切り換る事により、個々の発掘 器の共振器はQを上げて C/N を良くし、全体で広 帯域を発振する機にした新規な電圧制御発掘器を 提供することにある。